

FIG. 1

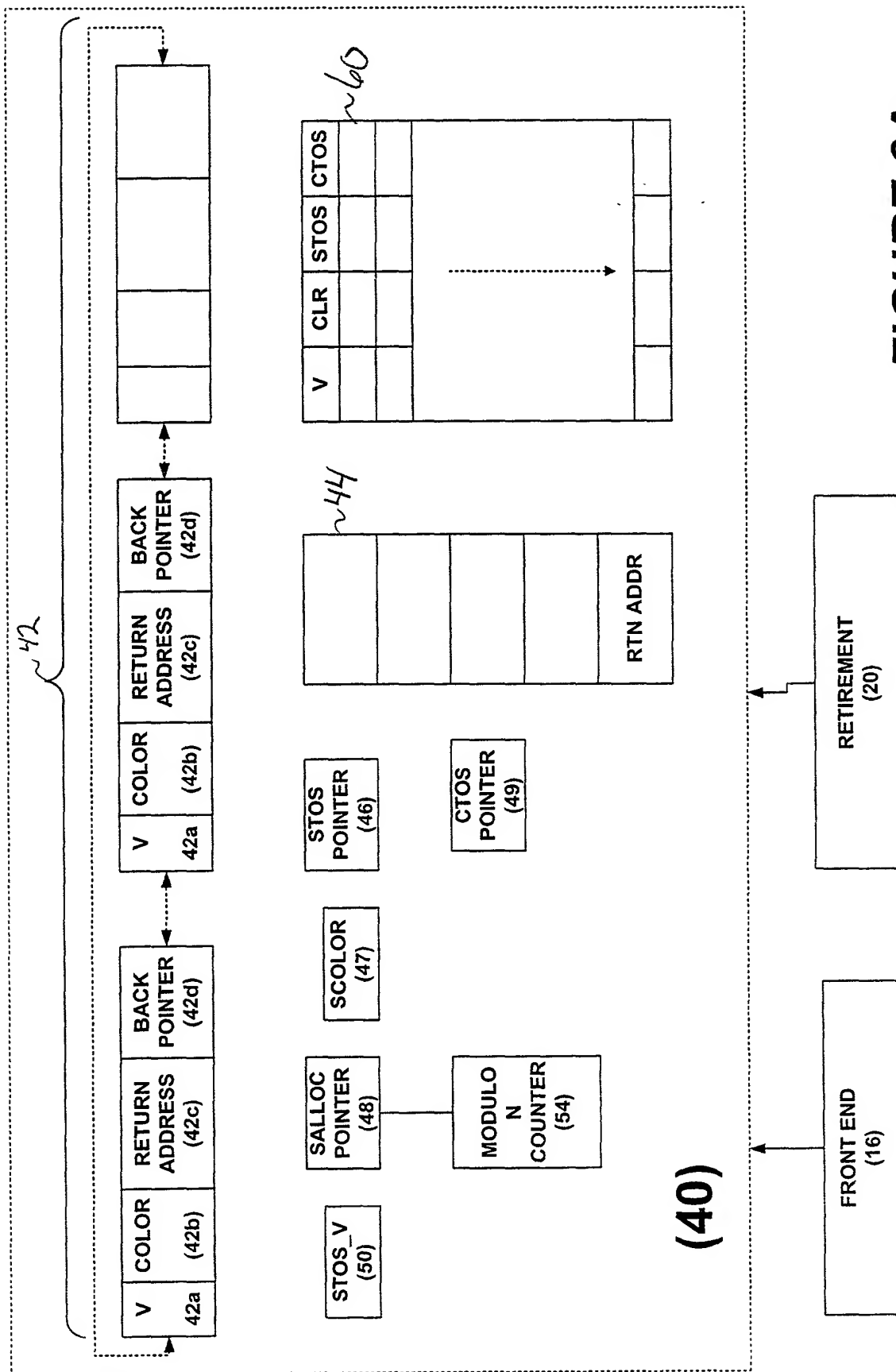


FIGURE 2A

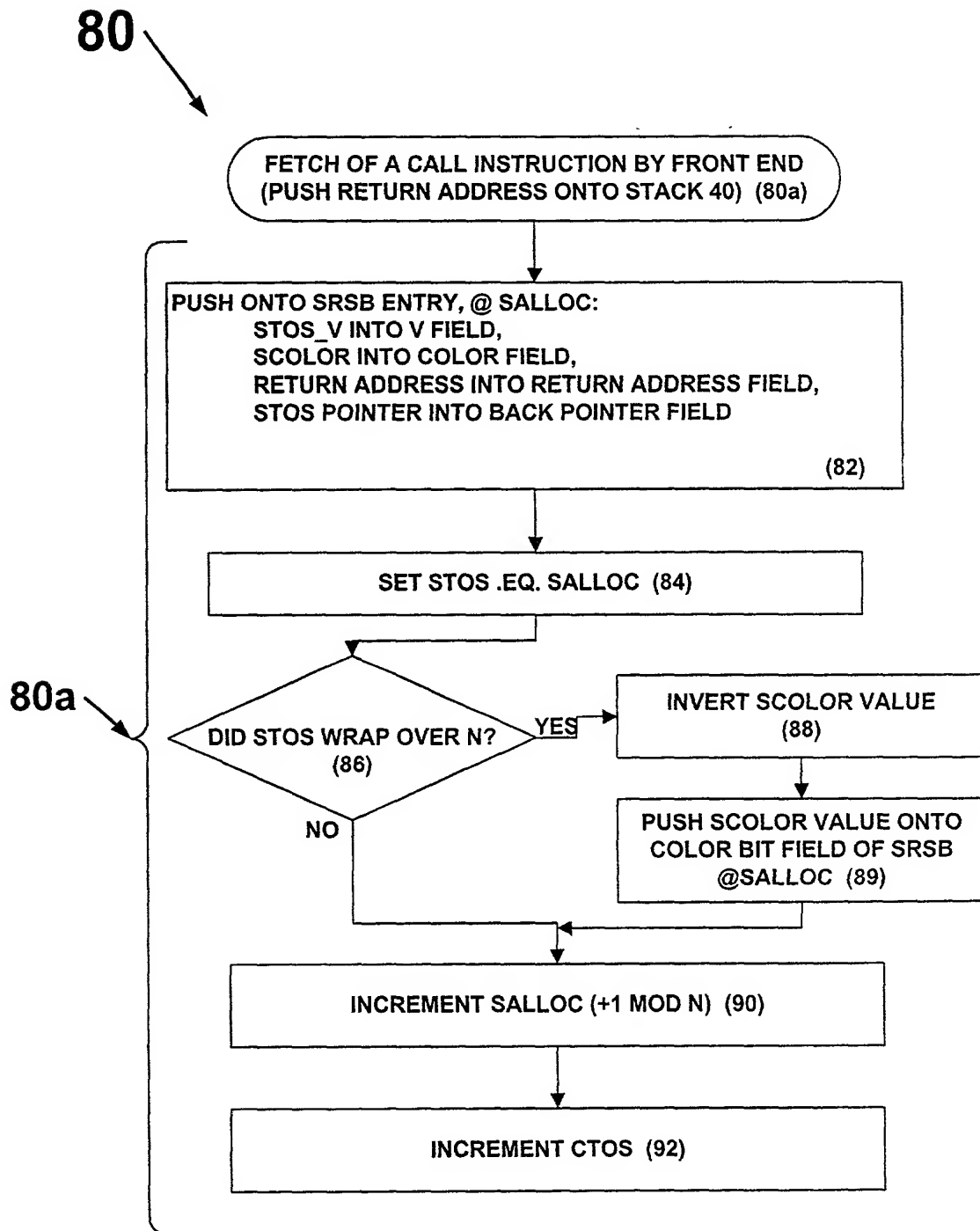
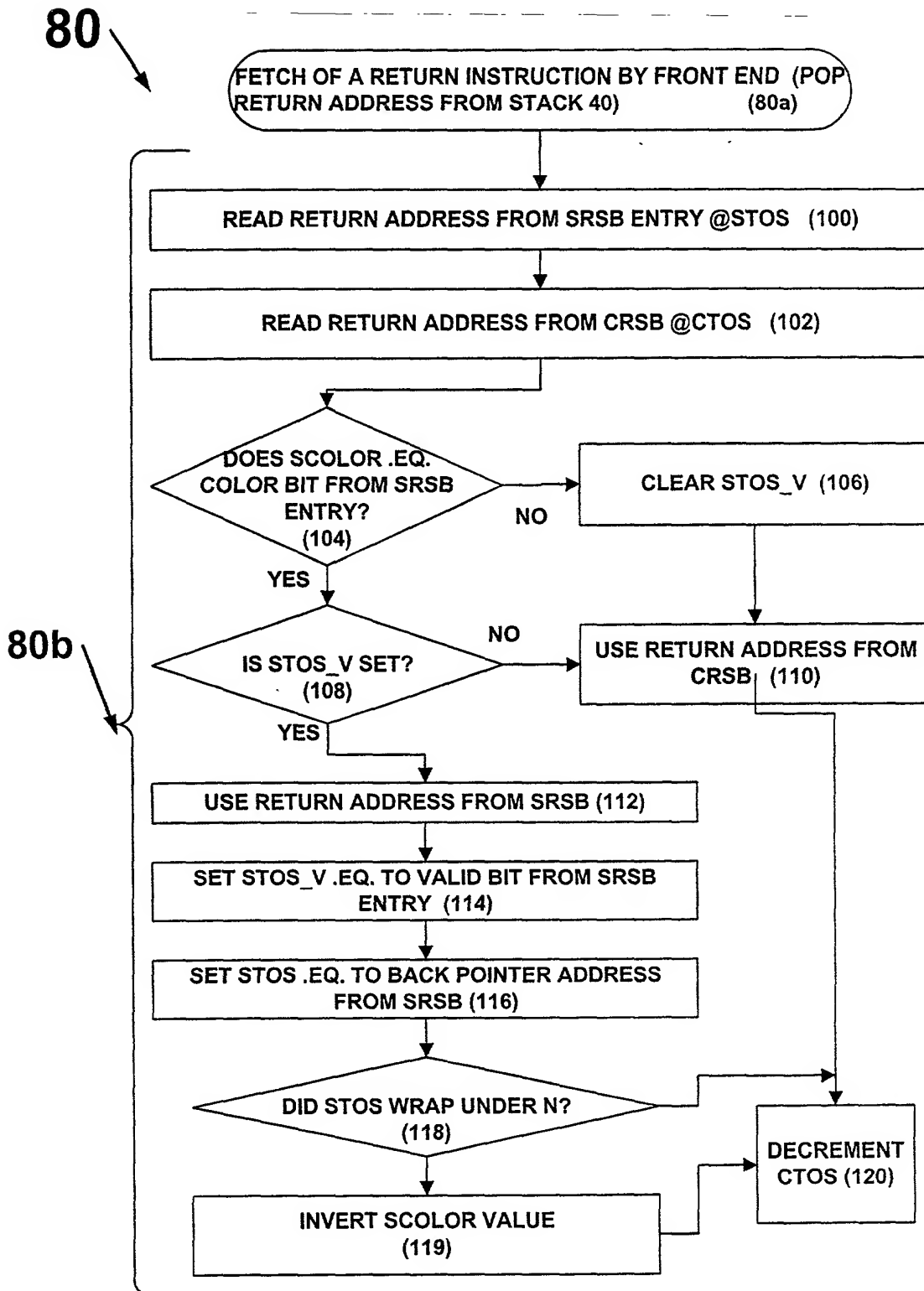


FIGURE 2B



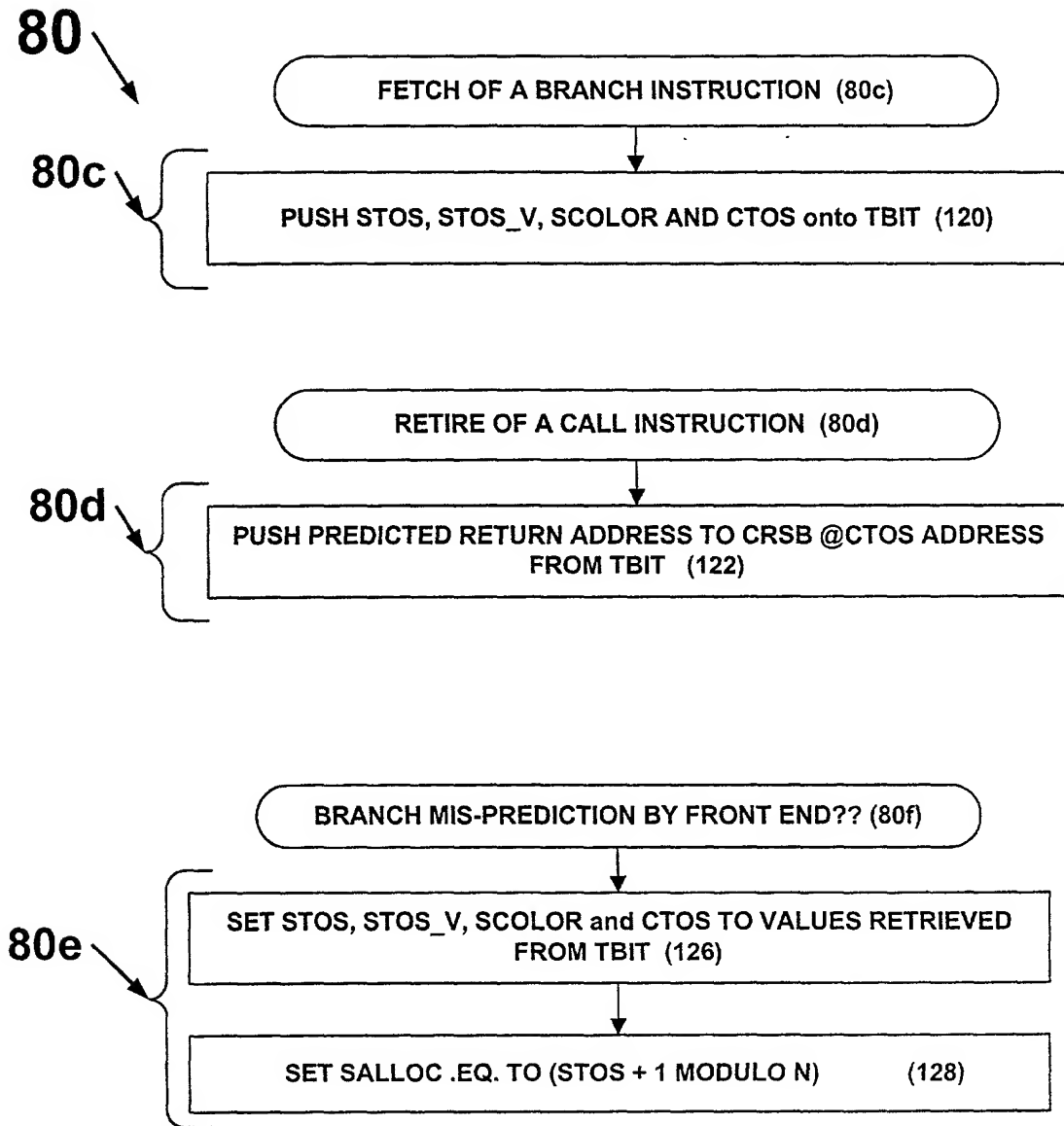


FIGURE 2D

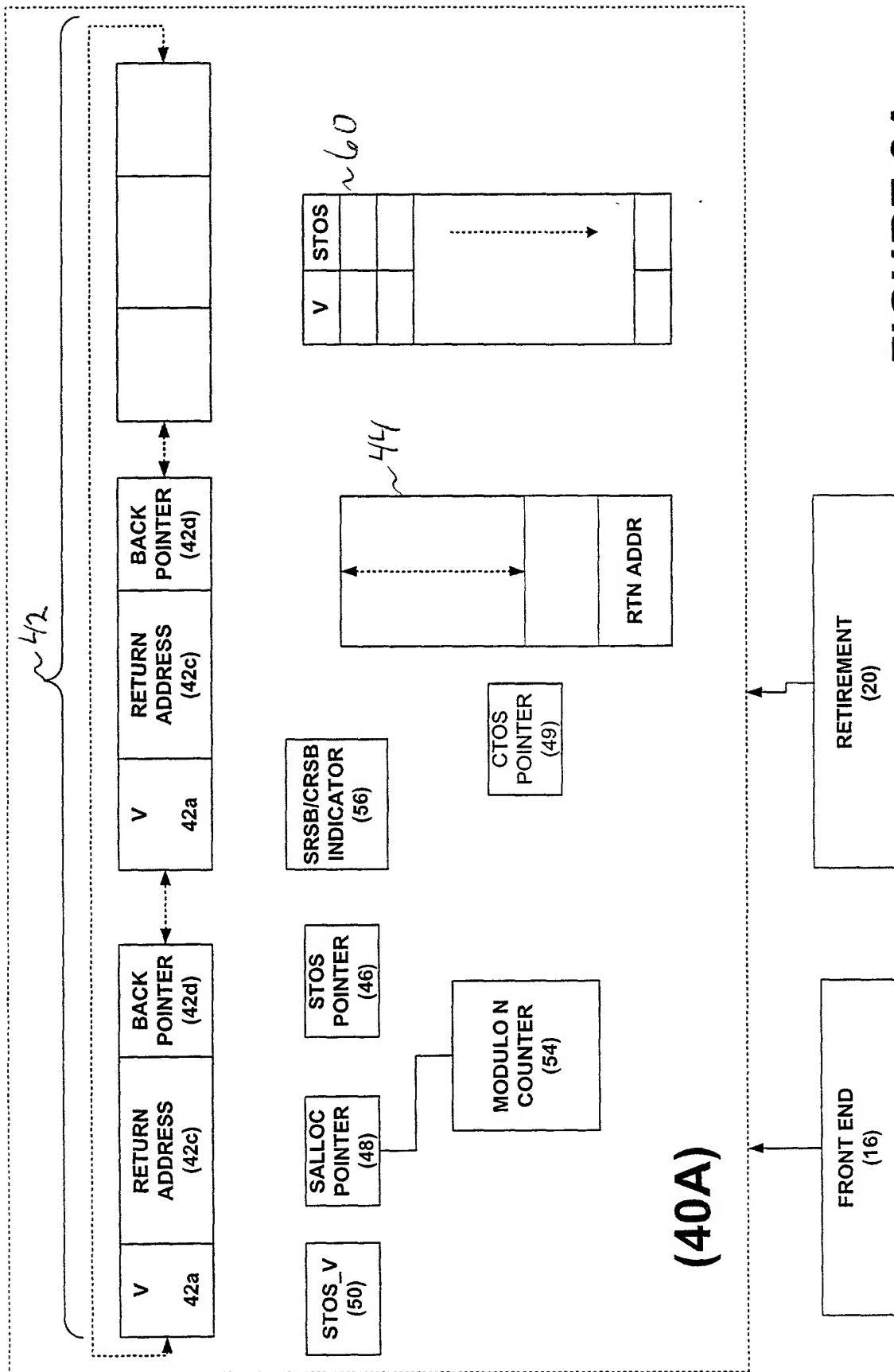


FIGURE 3A

140

FETCH OF A CALL INSTRUCTION BY FRONT END (PUSH RETURN
ADDRESS ONTO STACK 40) (140a)

PUSH ONTO SRSEB ENTRY, @ SALLOC:
RETURN ADDRESS INTO RETURN ADDRESS FIELD,
STOS POINTER AND SRSEB/CRSEB INDICATOR INTO BACK POINTER FIELD (141)

140a

SET V-BIT FIELD IN SRSEB ENTRY @SALLOC (142)

SET STOS .EQ. SALLOC (144)

INCREMENT SALLOC (+1 MOD N) (146)

FETCH OF A RETURN INSTRUCTION BY FRONT END (POP RETURN
ADDRESS FROM STACK 40) (140b)

140b

DOES STOS POINT TO
CRSEB? (148)

NO

IS ENTRY IN SRSEB
@STOS VALID? (150)

YES

YES

NO

READ RETURN ADDRESS FROM
CRSEB @STOS (156)

DECREMENT STOS (-1 MOD N)
(158)

READ RETURN ADDRESS FROM SRSEB
ENTRY @STOS (152)

SET STOS TO CONTENTS OF BACK
POINTER FIELD FROM SRSEB (154)

FIGURE 3B

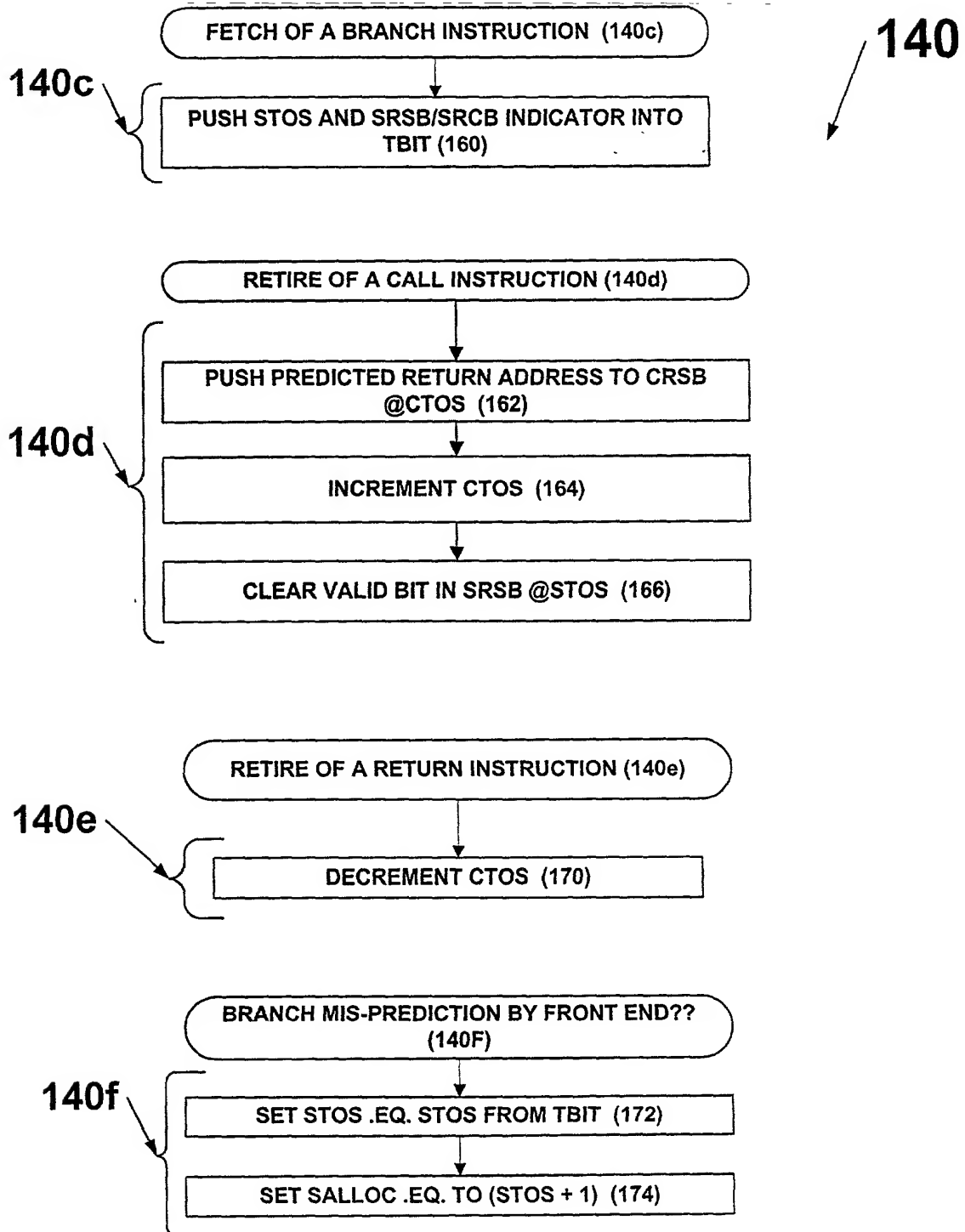


FIGURE 3C